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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|----------------------|-------------------------|------------------|
| 09/955,507 | 09/18/2001 | Donna J. Crowther | 1999U033.US | 1465 |
| 25959 | 7590 12/08/2003 | | EXAMINER | |
| UNIVATION TECHNOLOGIES LLC - 5555 SAN FELIPE, SUITE 1950 | | | RABAGO, ROBERTO | |
| HOUSTON, | | | ART UNIT | PAPER NUMBER |
| , | | • | 1713 | |
| | | | DATE MAILED: 12/08/2003 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| _ | _ | CLD 19 | | | | |
|---|---|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Action Summany | 09/955,507 | CROWTHER ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Rob Rábago | 1713 | | | | |
| The MAILING DATE of this communication ap Period for Reply | p ars on the cover sheet with the | correspond nc address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleted in the provision of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuted the period by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status | .136(a). In no event, however, may a reply be oly within the statutory minimum of thirty (30) d I will apply and will expire SIX (6) MONTHS frote, cause the application to become ABANDON | timely filed ays will be considered timely. om the mailing date of this communication. VED (35 U.S.C. § 133). | | | | |
| 1) Responsive to communication(s) filed on 21. | July 2003. | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ This | s action is non-final. | | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>4,5,7-13 and 40</u> is/are pending in the application. | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | Claim(s) is/are allowed. | | | | | |
| 6)⊠ Claim(s) <u>4,5,7-12 and 40</u> is/are rejected. | ☑ Claim(s) <u>4,5,7-12 and 40</u> is/are rejected. | | | | | |
| 7)⊠ Claim(s) <u>13</u> is/are objected to. | ☑ Claim(s) <u>13</u> is/are objected to. | | | | | |
| 8) Claim(s) are subject to restriction and/ | or election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) ☐ The oath or declaration is objected to by the E | examiner. Note the attached Office | ce Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the fit 37 CFR 1.78. | nts have been received. Its have been received in Applicate the following the have been received in Applicate the following the | ation No ved in this National Stage ved. Ø(e) (to a provisional application) | | | | |
| a) ☐ The translation of the foreign language pr 14) ☒ Acknowledgment is made of a claim for domes reference was included in the first sentence of t | tic priority under 35 U.S.C. §§ 12 | 20 and/or 121 since a specific | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Informa | ry (PTO-413) Paper No(s) I Patent Application (PTO-152) | | | | |

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DETAILED ACTION

1. Rejection over Langhauser is withdrawn in view of amendment. Applicants' submission of an appeal brief is acknowledged; however, this application will not be forwarded to the Board of Patent Appeals and Interferences at this time in view of new grounds of rejection as set forth below.

Information Disclosure Statement

2. The information disclosure statement filed 7/23/03 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the third reference has not been considered because it is illegible.

Claim Rejections - 35 USC § 103

3. Claims 4, 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (Organometallics 1994), optionally in view of Winter et al. (US 6,057,408) or Winter et al. (US 5,532,396) for the reasons set forth in item 6 of the Office action mailed 5/2/2003.

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4. Claims 4, 5, 7-12 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winter et al. (US 5,532,396) for the reasons set forth in item 7 of the Office action mailed 5/2/2003.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 4, 5, 7-12 and 40 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 27 in view of claim 7 of U.S. Patent No. 6,034,192. Although the conflicting claims are not identical, they are not patentably distinct from each other. Specifically, patented claim 27 specifies the catalyst system comprising a germanium-bridged metallocene, and claim 7 provides clear motivation to select a metallocene with a cyclic germanium bridge. Reasonable success would be expected because the combination of claim 1 and 7 indicates that a useful polymerization process would result.

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7. Applicant's arguments filed 7/21/2003 have been fully considered but they are not persuasive.

Regarding the stated interpretation of the claimed "bulky ligand metallocene-type catalyst" comprising "cyclopentadienyl-type bulky ligands", the examiner stands on the remarks of item 3 of the Office action mailed 5/2/2003. It is not contested that the term "metallocene" or "metallocene-type" may include structures other than those which include a cyclopentadienyl moiety. However, applicants' argument ignores the fact that the claims not only require that the catalyst structure be of "bulky ligand metallocenetype", but also that the ligands be "cyclopentadienyl ligand or cyclopentadienyl-type bulky ligand". As such, there is nothing in applicants' remarks which indicates that the art understands that "cyclopentadienyl ligand or cyclopentadienyl-type" includes the broad array of clearly non-Cp structures asserted by applicants. The inclusion of such structures as imido, cyclooctatetraene, and non-cyclic structures as within the meaning of "cyclopentadienyl-type" is clearly repugnant to the ordinary meaning of this term. Although applicants may be their own lexicographer, there is nothing in the specification which clearly redefines the accepted meaning of cyclopentadienyl to correspond to the extraordinary scope of non-Cp structures which they appear to be asserting. Regarding applicants' discussion of this issue in the appeal brief, it should be noted that no claims are rejected on grounds of indefiniteness, and therefore this issue is not appealable subject matter.

Regarding the rejection over Chen and supporting references, applicants allege that modification or development of the catalyst disclosed in Chen must necessarily be

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predicated on clear evidence that the use of a support would result in a catalyst which is

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effective at high temperature. However, no such requirement exists. Applicants have

entirely ignored the fact that that the performance of the Chen catalyst far exceeds that

of corresponding silyl-bridged zirconocenes for the broad range of useful temperatures

shown in the reference (see pg. 749, second column and Table 1), and such dramatic

improvement provides clear motivation to use such effective catalysts in other

conventional forms, such as in a supported mode.

Regarding the rejection over Winter '396 alone, applicants' argument has been

addressed in the Office action mailed 5/2/2003.

Allowable Subject Matter

Claim 13 is objected to as being dependent upon a rejected base claim, but 8.

would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rob Rábago whose telephone number is (703) 308-

4347. The examiner can normally be reached on Monday - Friday from 8:30 am - 3:30

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached at (703) 308-2450. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0661.

RR

December 2, 2003

ROBERTO RABAGO

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PATENT EXAMINER